



ST JOSEPH'S INSTITUTION
END-OF-YEAR EXAMINATION 2022
YEAR 1

CANDIDATE
NAME

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CLASS

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INDEX
NUMBER

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GEOGRAPHY

26 September 2022

1 hour 20 minutes

Additional Materials : 3 pieces of Writing Paper

(0800-0920)

READ THESE INSTRUCTIONS FIRST

Write your name, class and index number on all the work you hand in.

Write in dark blue or black pen on both sides of the paper.

You may use a soft pencil for any diagrams.

Do not use staples, paper clips, glue or correction tape/ fluid.

Answer **ALL** questions on writing paper.

Hand in Section A and Section B **SEPARATELY**.

The number of marks is given in brackets [] at the end of each question or part question.

For Examiner's Use	
	40

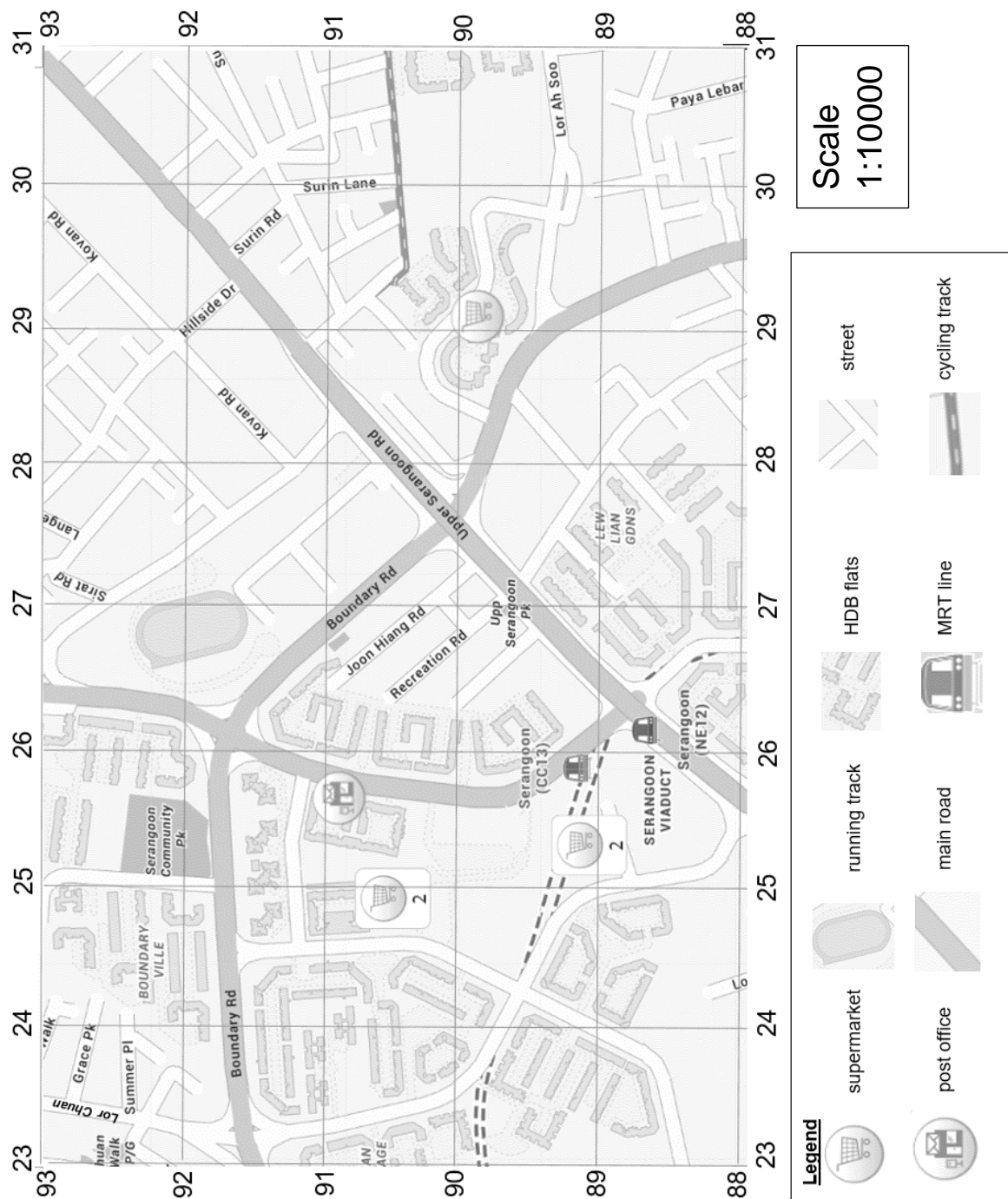
SECTION A: Structured Questions with Topographic Map Reading (22 marks)

Instructions:

Answer all questions on the writing paper provided. Remember to number your answers and leave lines between each answer.

- 1 Figure 1 shows a map extract of a residential part of Singapore.

Fig. 1

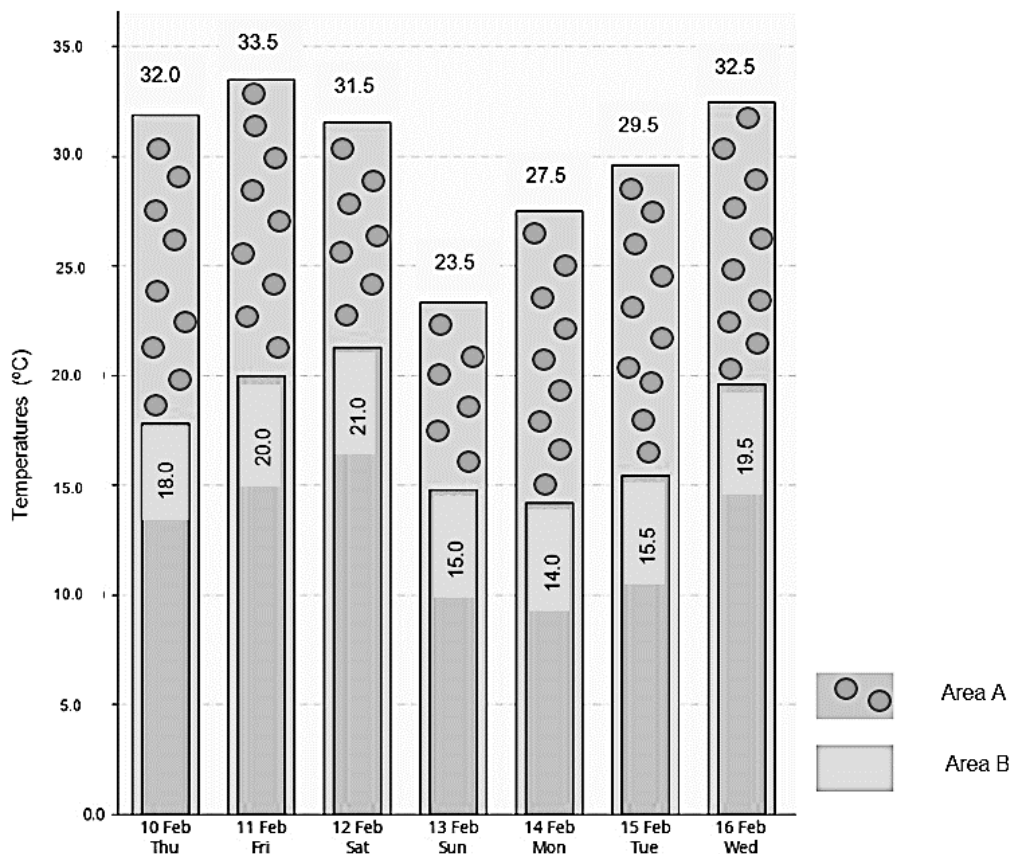


Source: <https://www.onemap.gov.sg/main/v2/essentialamenities>

- (a) A man is at Serangoon MRT station (CC13) and wishes to do grocery shopping at the nearest supermarket. **State** the direction he has to head towards. [1]
- (b) **Name** a human feature found in 2590. [1]
- (c) **State** the 6-figure grid reference where the two main roads, Boundary Road and Upper Serangoon Road intersect. [1]
- (d) **Calculate** the straight line distance of the cycling track, in km. [1]

- 2(a) Figure 2 shows the relationship between temperatures and cloud cover in Areas A and B, recorded over a 12-hour time period at night. [1]

Fig. 2

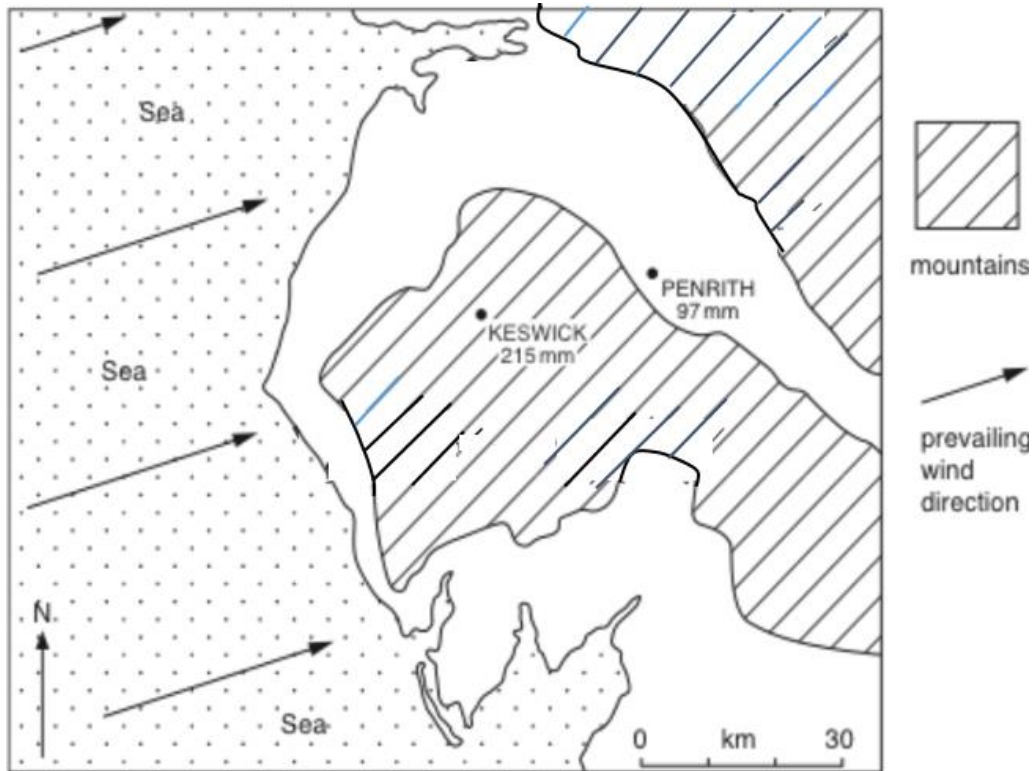


Source: <https://jamesspann/posts/501525254678836>

- (i) Study and use Fig. 2 to **identify** and **explain** which area, Area A or Area B, has thicker cloud cover. [2]
- (ii) With the aid of a well-labelled diagram, **explain** why the subtropical regions have little or no cloud cover. [4]

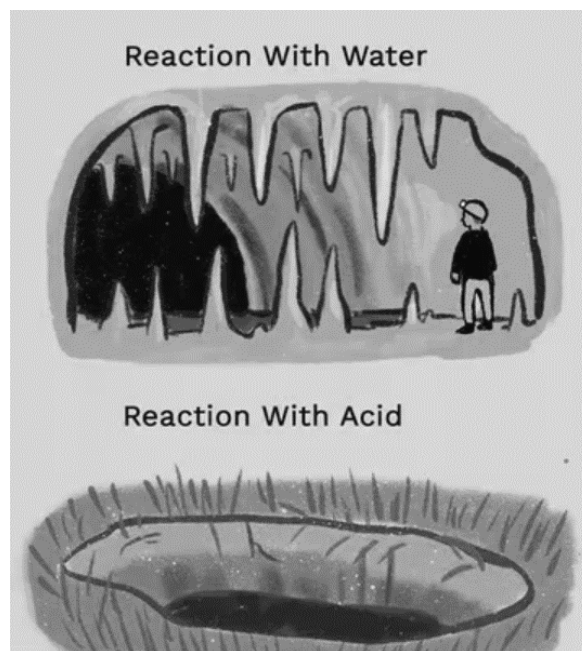
- (b) Figures 3A and 3B show a map with the locations of two weather stations, Keswick and Penrith, and a diagram indicating the impacts of rain on both areas, respectively.

Fig. 3A



Source: <https://www.metlink.org/resource/rain-wind-snow-and-fog/>

Fig. 3B



Source: <https://www.thoughtco.com/examples-weathering-607608>

- (i) Study and use Fig. 3A to **explain** why the two weather stations experience differing amounts of rainfall. [3]
 - (ii) Study Fig. 3B and **state** and **explain** how the type of weathering occurs. [3]
- (c) Figure 4 shows a landform feature found in the arid tropical environment.

Fig. 4



Source: <https://www.wikiwand.com/en/>

- (i) Study and use Fig. 4 to **explain** how the power of wind shapes ONE characteristic of the landform feature. [2]
- (ii) With the use of a diagram, **explain** how wind is also responsible for the breeze experienced in some parts of eastern Singapore during the day. [4]

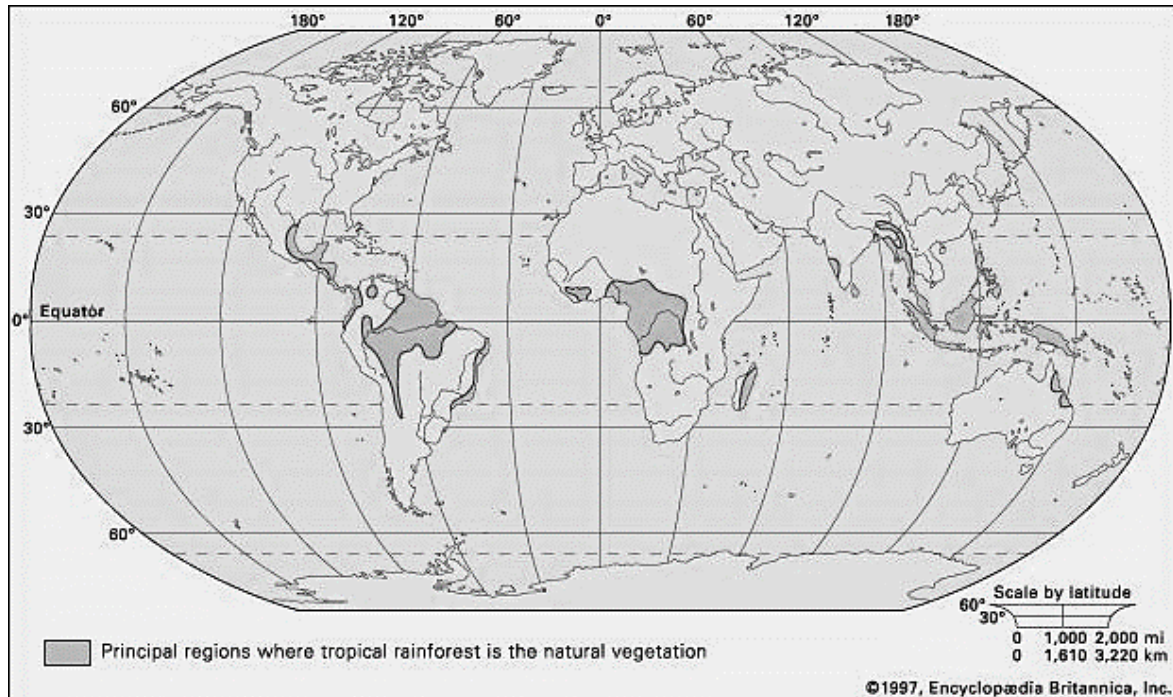
SECTION B: Structured Questions (18 marks)

Instructions:

Start this section on a separate piece of writing paper. Answer all questions on the writing paper provided. Remember to number your answers and leave lines between each answer.

3(a) Figure 5 shows a map of the distribution of tropical rainforests in the world.

Fig. 5

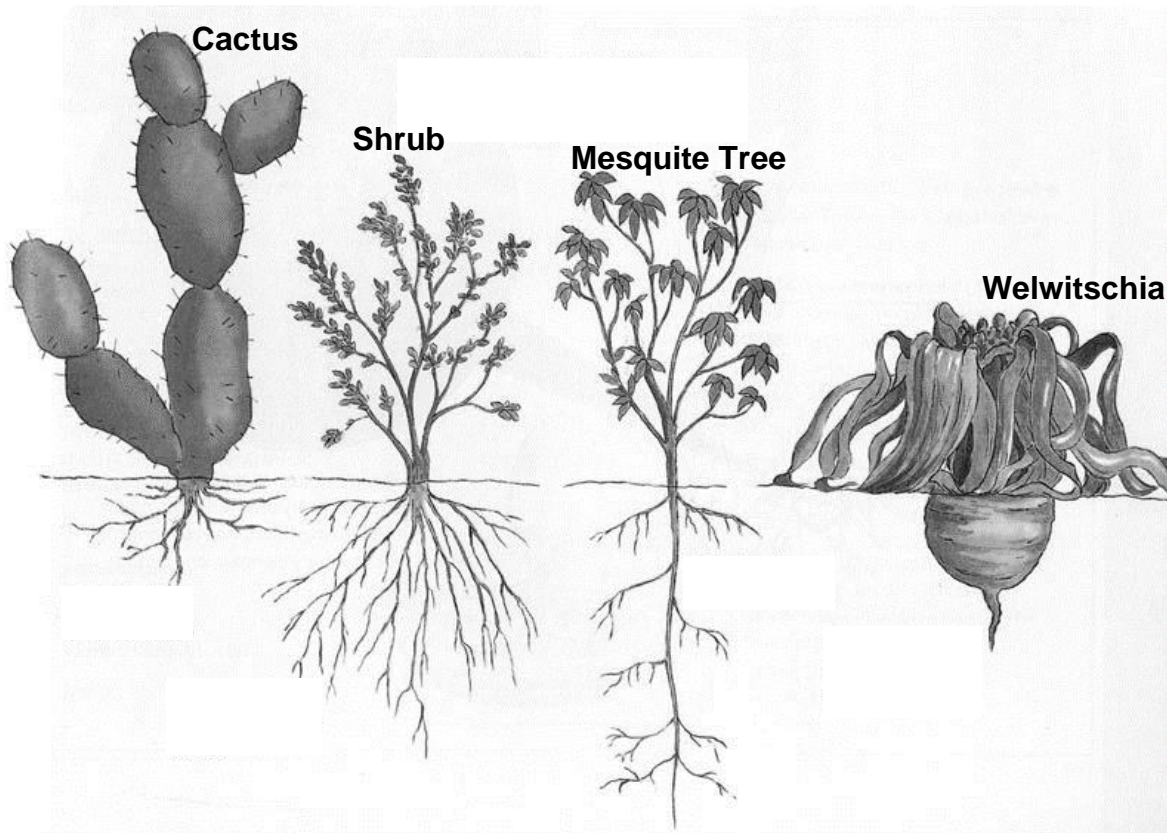


Source: https://useruploads.socratic.org/yQ91loZQnGTofOllxAqK_6578-004-A83EE287.jpg

- (i) Study and use Fig. 5 to **describe** the spatial distribution of the tropical rainforests. [4]
- (ii) **Explain** TWO atmospheric importance of tropical forests. [2]

(b) Figure 6 shows the root system of different desert plants.

Fig. 6

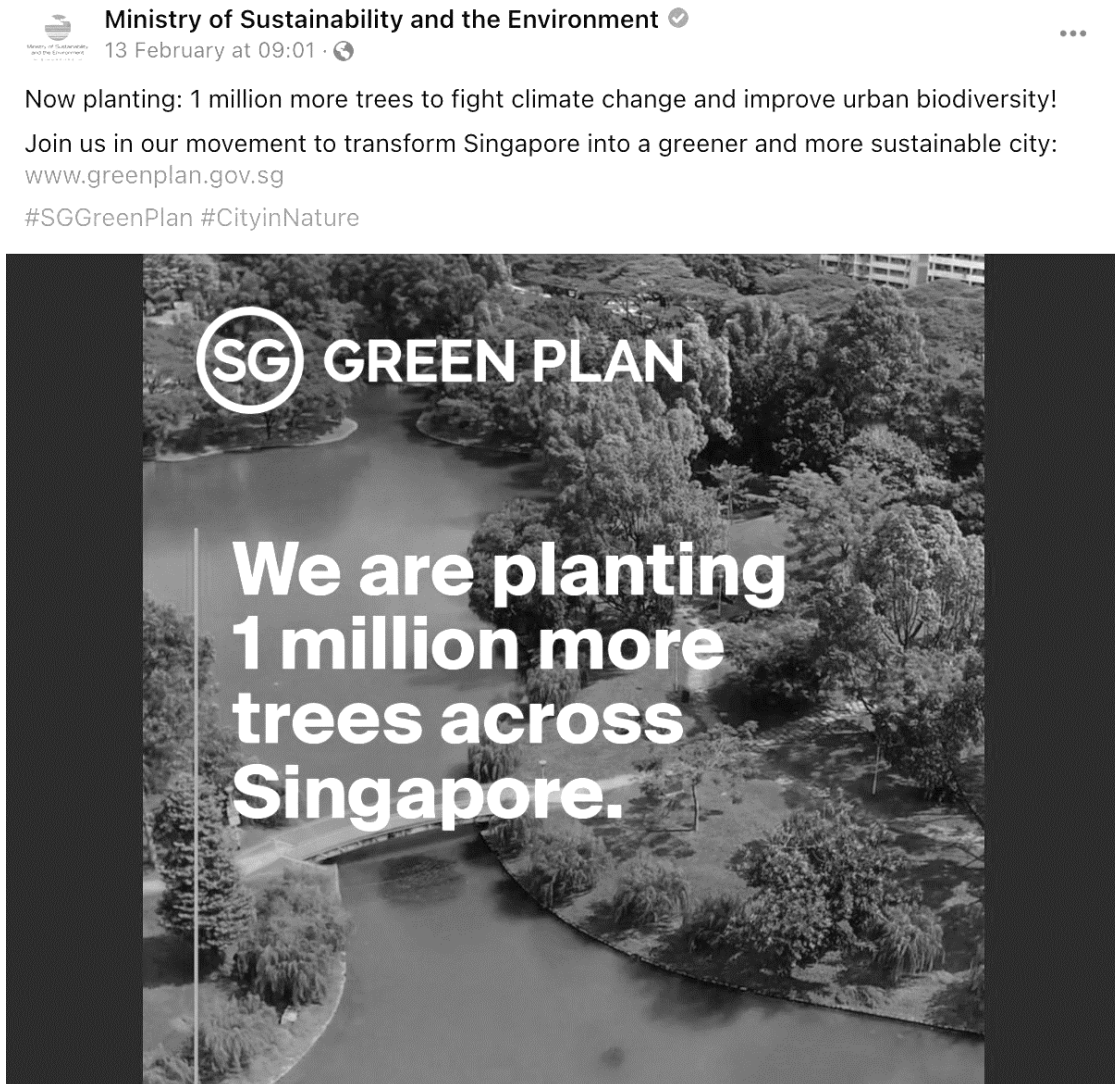


Source: <https://4.bp.blogspot.com/-QORO5ze-MRQ/UjgxwI3kcI/AAAAAAAAACg/87zq5Etfgv4/s1600/50-plants-desert.jpg>

- (i) Study and use Fig. 6 to **explain** how each of the root system helps the plants to survive in the arid tropical environment. [4]
- (ii) **Explain** TWO ways in which plants in the arid tropical environment adapt to high temperatures. [2]

- (c) Figure 7 shows a media release on a strategy of the Singapore Green Plan 2030.

Fig. 7



Source: <https://pbs.twimg.com/media/Eudioa5VIAIdXhM.jpg:large>

With the use of examples, **explain** how this strategy and TWO other strategies help to sustainably manage the tropical forests in Singapore. [6]

End-of-Paper